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CLAIMS:

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- A method for arbitrating access by a scheduling apparatus that provides an interface between a memory and at least two devices, the scheduling apparatus including a memory request arbiter configured to control access to the memory, wherein the memory request arbiter arbitrates access to the memory for different devices having different priorities, at least two counters coupled to the memory request arbiter, wherein each counter is associated with at least a first device of the at least two devices, and wherein at least one of the at least two counters is configured to produce various timeperiods, wherein during such time-periods the arbiter prevents first device from accessing the memory, wherein scheduling apparatus provides scheduling of tasks, at least one of the tasks not inherently having a pre-determined periodic behavior, and wherein the scheduling apparatus is capable of arbitrating access to at least one device that is sensitive to latency, the method comprising:
- producing at least one time signal, the at least one timesignal defining a time-period; and

preventing the first device from accessing the memory during the time-period.

2. A method for arbitrating access by a scheduling apparatus that provides an interface between a memory and at least two devices, the scheduling apparatus including a memory request arbiter configured to control access to the memory, wherein the memory request arbitrates access to the

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memory for different devices having different priorities, at least two counters coupled to the memory request arbiter, wherein each counter is associated with at least a first device of the at least two devices, and wherein at least one of the at least two counters is configured to produce various time-periods, wherein during such time-periods the arbiter prevents higher priority devices from accessing the memory, wherein the scheduling apparatus provides scheduling of tasks, at least one of the tasks not inherently having a pre-determined periodic behavior, and wherein the scheduling apparatus is capable of arbitrating access to at least one device that is sensitive to latency, the method comprising:

producing at least one time signal, the at least one timesignal defining a time-period; and

preventing higher priority devices from accessing the memory during the time-period.

3. A method for arbitrating access by a scheduling apparatus that provides an interface between a memory and at least two devices, the scheduling apparatus including a memory request arbiter configured to control access to the memory, wherein the memory request arbiter arbitrates access to the memory for different devices having different priorities, at least two counters coupled to the memory request arbiter, wherein each counter is associated with at least a first device of the at least two devices, and wherein at least one of the at least two counters is configured to produce various time-periods, wherein during such time-periods the associated device will not request high priority access from the memory, wherein

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the scheduling apparatus provides scheduling of tasks, at least one of the tasks not inherently having a pre-determined periodic behavior, and wherein the scheduling apparatus is capable of arbitrating access to at least one device that is sensitive to latency, the method comprising:

producing at least one time signal, the at least one timesignal defining a time-period; and

not allowing, during the time-period, high priority access to the memory by devices associated with the time-period.